

WE CLAIM:

1. In a device for measuring the level of a fluid in a fuel tank of a motor vehicle, the fuel tank including a sound guide conduit disposed in the container, a fluid feeding device in the fuel tank, and at least one ultrasonic transducer disposed near one end of the sound guide conduit for generating ultrasonic pulses and for receiving the ultrasonic pulses reflected in the region of the surface of the fluid in the container, the improvement wherein the device for measuring the fluid level is disposed in the container (1) on an outer circumference of the fluid feeding device (18).

2. The device in accordance with claim 1, wherein the sound guide conduit (2) and/or the ultrasonic transducer (3) is cast, glued, welded, clipped, or screwed onto the outer circumference of the fluid feeding device (18).

3. The device in accordance with claim 1, wherein the sound guide conduit (2) comprises a horizontal or oblique forward-flow region (11) disposed near the container bottom (12).

4. The device in accordance with claim 3, wherein the forward-flow region (11) is straight or looped.

5. The device in accordance with claim 1, wherein the sound guide conduit (2) comprises at least one bend (15) with one deflection (13) each and/or at least one straight region (29) with a conduit slope angle.

6. The device in accordance with claim 1, wherein the sound guide conduit (2) comprises at least one reference reflection surface (19).

7. The device in accordance with claim 1, wherein the sound guide conduit (2) has at least two openings (17) communicating with the interior of the container.

8. The device in accordance with claim 1, wherein the sound guide conduit (2) comprises a flexible portion (39).

9. The device in accordance with claim 1, wherein the ultrasonic transducer (3) is simultaneously a transmitter and receiver.